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PAT. NO.	Title
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|----|---------------------------|-------------------|---|
| 1 | 6,640,249 | T | Presentation services patterns in a netcentric environment |
| 2 | 6,640,244 | T | Request batcher in a transaction services patterns environment |
| 3 | 6,640,238 | T | Activity component in a presentation services patterns environment |
| 4 | 6,636,242 | T | View configurer in a presentation services patterns environment |
| 5 | 6,615,253 | T | Efficient server side data retrieval for execution of client side applications |
| 6 | 6,615,199 | T | Abstraction factory in a base services pattern environment |
| 7 | 6,606,660 | T | Stream-based communication in a communication services patterns environment |
| 8 | 6,601,234 | T | Attribute dictionary in a business logic services environment |
| 9 | 6,601,192 | T | Assertion component in environment services patterns |
| 10 | 6,578,068 | T | Load balancer in environment services patterns |
| 11 | 6,571,282 | T | Block-based communication in a communication services patterns environment |
| 12 | 6,550,057 | T | Piecemeal retrieval in an information services patterns environment |
| 13 | 6,549,949 | T | Fixed format stream in a communication services patterns environment |
| 14 | 6,539,396 | T | Multi-object identifier system and method for information service pattern environment |
| 15 | 6,529,948 | T | Multi-object fetch component |
| 16 | 6,529,909 | T | Method for translating an object attribute converter in an information services patterns environment |
| 17 | 6,502,213 | T | System, method, and article of manufacture for a polymorphic exception handler in environment services patterns |
| 18 | 6,496,850 | T | Clean-up of orphaned server contexts |
| 19 | 6,477,665 | T | System, method, and article of manufacture for environment services patterns in a |

netcentric environment

- 20 [6,477,580](#) **T** [Self-described stream in a communication services patterns environment](#)
 - 21 [6,442,748](#) **T** [System, method and article of manufacture for a persistent state and persistent object separator in an information services patterns environment](#)
 - 22 [6,438,594](#) **T** [Delivering service to a client via a locally addressable interface](#)
 - 23 [6,434,628](#) **T** [Common interface for handling exception interface name with additional prefix and suffix for handling exceptions in environment services patterns](#)
 - 24 [6,434,568](#) **T** [Information services patterns in a netcentric environment](#)
 - 25 [6,427,140](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 26 [6,389,402](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 27 [6,363,488](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 28 [6,339,832](#) **T** [Exception response table in environment services patterns](#)
 - 29 [6,332,163](#) **T** [Method for providing communication services over a computer network system](#)
 - 30 [6,289,382](#) **T** [System, method and article of manufacture for a globally addressable interface in a communication services patterns environment](#)
 - 31 [6,253,193](#) **T** [Systems and methods for the secure transaction management and electronic rights protection](#)
 - 32 [6,237,786](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 33 [5,982,891](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 34 [5,949,876](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 35 [5,917,912](#) **T** [System and methods for secure transaction management and electronic rights protection](#)
 - 36 [5,915,019](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 37 [5,910,987](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 38 [5,892,900](#) **T** [Systems and methods for secure transaction management and electronic rights protection](#)
 - 39 [5,873,097](#) **T** [Update mechanism for computer storage container manager](#)
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Nov.-Dec. 1998

Page(s): 967 -987

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- 1 Improving the performance of log-structured file systems with adaptive me
Jeanna Neeffe Matthews, Drew Roselli, Adam M. Costello, Randolph Y. Wang, Tho
October 1997 ACM SIGOPS Operating Systems Review , Proceedings of the sixteen
principles, Volume 31 Issue 5

Full text available: pdf(2.18 MB)

Additional Information: full citation, references, citin

- 2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced S

Full text available: pdf(4.21 MB)


Additional Information: full citation, abstract, referen

Understanding distributed applications is a tedious and difficult task. Visualiza
often used to obtain a better understanding of the execution of the application
event tracer developed at the University of Waterloo. However, these diagram
provide the user with the desired overview of the application. In our experien
of non-trivial commun ...

3 A low-bandwidth network file system

Athicha Muthitacharoen, Benjie Chen, David Mazières

October 2001 ACM SIGOPS Operating Systems Review , Proceedings of the eight principles, Volume 35 Issue 5

Full text available:  pdf(1.29 MB)

Additional Information: full citation, abstract, references,

Users rarely consider running network file systems over slow or wide-area ne unacceptable and the bandwidth consumption too high. Nonetheless, efficient desirable over such networks---particularly when high latency makes remote run interactive programs such as editors remotely, users could run the progra through the file system. To do so, however, wo ...

4 C-TODOS: an automatic tool for office system conceptual design

B. Pernici, F. Barbic, R. Maiocchi, M. G. Fugini, J. R. Rames, C. Rolland

October 1989 ACM Transactions on Information Systems (TOIS), Volume 7 I

Full text available:  pdf(2.88 MB)


Additional Information: full citation, abstract, references, citing

Designers of office information systems, which share various features with inf development, need to carefully consider special issues such as document and interfaces, and available technology. The ESPRIT Project, Automatic TOols for (TODOS), proposes an integrated environment for office design with tools for conceptual design, rapid prototy ...

5 The integration of virtual memory management and interprocess communic

Robert Fitzgerald, Richard F. Rashid

May 1986 ACM Transactions on Computer Systems (TOCS), Volume 4 Issue

Full text available:  pdf(2.45 MB)

Additional Information: full citation, abstract, references,

The integration of virtual memory management and interprocess communicat kernel is examined. The design and implementation of the Accent memory m performance, both on a series of message-oriented benchmarks and in norma

6 4.2BSD and 4.3BSD as examples of the UNIX system

John S. Quarterman, Abraham Silberschatz, James L. Peterson

December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

Full text available:  pdf(4.07 MB)

Additional Information: full citation, abstract, references, citi


This paper presents an in-depth examination of the 4.2 Berkeley Software Dis which is a version of the UNIX Time-Sharing System. There are notes through from the University of California at Berkeley. We trace the historical developm conception in 1969 until today, and describe the design principles that have g the internal data structures and ...

7 Authoring Support: Designing annotation before it's needed

Frank Nack, Wolfgang Putz

October 2001

Proceedings of the ninth ACM international conference on Mult

Full text available:  pdf(1.16 MB)

Additional Information: full citation, abstract, refer

This paper considers the automated and semi-automated annotation of audiov framework, A4SM (Authoring System for Syntactic, Semantic and Semiotic Mo the framework and outline the underlying XML-Schema based content descrip tools for a news and demonstrate how video material can be annotated in rea only be used for retrieval but also can be ...

Keywords: MPEG-7, XML Schema, automated annotation, news production, se

8 Web content accessibility guidelines 1.0

Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs

July 2001

interactions, Volume 8 Issue 4

Full text available:  pdf(471.98 KB) Additional Information: full citation, references, citings, index terms

9 Poster session and reception: MPEG-7 metadata authoring tool

Jeewoong Ryu, Yumi Sohn, Munchuri Kim

December 2002

Proceedings of the tenth ACM international conference on M

Full text available:  pdf(147.33 KB)

Additional Information: full citation, abstrac

Recently an international standard for Multimedia content description, MPEG-7 reaching the FDIS level. MPEG-7 aims at providing structural and semantic de contents so that content based searching/filtering and access to multimedia c multimedia description data, that is, MPEG-7 description data. However, the M syntax and semantics of d ...


Keywords: MPEG-7, authoring, descriptors, key frame, metadata, multimedia

10 A high performance multi-structured file system design

Keith Muller, Joseph Pasquale

September 1991

ACM SIGOPS Operating Systems Review , Proceedings of the thirt systems principles, Volume 25 Issue 5

Full text available:  pdf(1.40 MB)

Additional Information: full citation, references, citin

11 Decentralized storage systems: Farsite: federated, available, and reliable s environment

Atul Adya, William J. Bolosky, Miguel Castro, Gerald Cermak, Ronnie Chaiken, Jo Marvin Theimer, Roger P. Wattenhofer

December 2002

ACM SIGOPS Operating Systems Review, Volume 36 Issu

Full text available:  pdf(1.87 MB)

Additional Information: full citation, abstract

Farsite is a secure, scalable file system that logically functions as a centralize among a set of untrusted computers. Farsite provides file availability and relia storage; it ensures the secrecy of file contents with cryptographic techniques; directory data with a Byzantine-fault-tolerant protocol; it is designed to be sc mechanism and delegatio ...

12 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

May 2002

ACM Transactions on Internet Technology (TOIT), Volume 2 Issue

Full text available:  pdf(335.47 KB)

Additional Information: full citation, abstract, refere

The World Wide Web has succeeded in large part because its software archite of an Internet-scale distributed hypermedia application. The modern Web arch component interactions, generality of interfaces, independent deployment of to reduce interaction latency, enforce security, and encapsulate legacy system Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

13 A method for incrementally compiling languages with nested statement stru

Jay Earley, Paul Caizergues

December 1972

Communications of the ACM, Volume 15 Issue 12

Full text available:  pdf(474.16 KB)

Additional Information: full citation, abstract, re

A method of incremental compilation is presented which applies especially to statements can be nested (such as Algol and PL/I). The method permits editin purpose text editor, and incremental processing of changes without frequent r essential points of the method are: (1) the syntax of the language is restricte lines; (2) an internal data struct ...

Keywords: incremental compiler, interactive programming language

14 Design of a SPDIF receiver using protocol compiler

Ulrich Holtmann, Peter Blinzer

May 1998

Proceedings of the 35th annual conference on Design automation c

Full text available:  pdf(348.72 KB)

Additional Information: full citation, abstract, refere

This paper describes the design of a receiver for the digital audio signal SPDIF done with Protocol Compiler, a high-level synthesis tool for the design of stru Compared to traditional RTL design, Protocol Compiler makes entry, debuggin by factor 2 while the results in terms of area and delay are competitive.

Keywords: high-level synthesis, telecommunication

15 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999

ACM Computing Surveys (CSUR), Volume 31 Issue 2

Full text available:  pdf(233.31 KB)

Additional Information: full citation, abstract, references, c

Recent advances in wireless data networking and portable information applian computing, called mobile computing, in which users carrying portable devices services regardless of their physical location or movement behavior. In the m access in mobile environments has proliferated. In this survey, we provide a c the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, d mobile applications, mobile client/server, mobile compuing, mobile data, mob

16 Operating systems: DualFS: a new journaling file system without meta-data

Juan Piernas, Toni Cortes, José M. García

June 2002

Proceedings of the 16th international conference on Supercomput

Full text available:  pdf(213.64 KB)

Additional Information: full citation, abstract, referen

In this paper we introduce DualFS, a new high performance journaling file sys different devices (usually, two partitions on the same disk or on different disk ways. Unlike other journaling file systems, DualFS has only one copy of every *meta-data device*, a log which is used by DualFS both to read and to write me time-expensive extra copy of meta-data b ...


Keywords: DualFS, journaling file system, meta-data management

17 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000

ACM Transactions on Information Systems (TOIS), Volume 18

Full text available:  pdf(6.94 MB)

Additional Information: full citation, abstract, references,

This paper describes a methodology for the development of WWW application tailored for the methodology. The methodology and the development environment techniques already used in the hypermedia, information systems, and software in an original mix. The foundation of the proposal is the conceptual design of notation for the specification of structure, navigation ...

Keywords: HTML, WWW, application, development, intranet, modeling

18 Performance Workload Characterization and Adaptation: Aliasing on the world wide web implications

Terence Kelly, Jeffrey Mogul

May 2002

Proceedings of the eleventh international conference on World Wide Web

Full text available:  pdf(376.28 KB)

Additional Information: full citation, abstract, reference

Aliasing occurs in Web transactions when requests containing different URLs have the same payloads. Conventional caches associate stored data with URLs and can therefore suffer from aliasing and other causes. Existing research literature, however, says little about user-initiated transactions, or about redundant payload transfers in conventional caches. This paper quantifies the extent of aliasing in ...


Keywords: DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, detection, hypertext transfer protocol, performance analysis, redundant transactions

19 Scheduling algorithms for modern disk drives

Bruce L. Worthington, Gregory R. Ganger, Yale N. Patt

May 1994

ACM SIGMETRICS Performance Evaluation Review, Proceedings of the Measurement and modeling of computer systems, Volume 22 Issue 1

Full text available:  pdf(1.01 MB)


Additional Information: full citation, abstract, references,

Disk subsystem performance can be dramatically improved by dynamically or statically scheduling disk requests. Via strongly validated simulation, we examine the impact of complex logical-to-physical mapping caches on scheduling effectiveness. Using both synthetic workloads and trace environments, we arrive at three main conclusions: (1) Incorporating complex mapping caches provides only a marginal improvement in performance ...

20 Designing a trace format for heap allocation events

Trishul Chilimbi, Richard Jones, Benjamin Zorn

October 2000 ACM SIGPLAN Notices , Proceedings of the second international sym
36 Issue 1

Full text available:  pdf(1.53 MB)

Additional Information: full citation, abstract, citing

Dynamic storage allocation continues to play an important role correctness of systems ranging from user productivity software While algorithms for dynamic storage allocation have been studied literature is based on measuring the performance of benchmarks many important allocation-intensive workloads. Furthermore, techniques have been proposed for publishing and exchanging ...

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21 Building a robust software-based router using network processors

Tammo Spalink, Scott Karlin, Larry Peterson, Yitzchak Gottlieb

October 2001 ACM SIGOPS Operating Systems Review , Proceedings of the eight principles, Volume 35 Issue 5

Full text available:  pdf(1.49 MB)

Additional Information: full citation, abstract, references,

Recent efforts to add new services to the Internet have increased interest in s extend and evolve. This paper describes our experiences using emerging netw IXP1200---to implement a router. We show it is possible to combine an IXP12 inexpensive router that forwards minimum-sized packets at a rate of 3.47Mpp faster than existing pure PC-base ...

22 Metadata and data structures for the historical newspaper digital library

Robert B. Allen, John Schalow

November 1999 Proceedings of the eighth international conference on Informatio

Full text available:  pdf(732.38 KB)

Additional Information: full citation, abstract, references

We examine metadata and data-structure issues for the Historical Newspaper digitize and then do OCR and linguistics processing on several years worth of very complex information objects so developing a rich description of their con frameworks for the logical structure and physical layout, we propose metadat the historians who will use th ...

Keywords: OCR, digital libraries, history, metadata, newspapers

23 Broadcast protocols to support efficient retrieval from databases by mobile

Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999

ACM Transactions on Database Systems (TODS), Volume 24 Iss

Full text available:  pdf(638.48 KB)

Additional Information: full citation, abstract, references, cit

Mobile computing has the potential for managing information globally. Data m have received some attention in recent times, and the design of adaptive brao important problem. Such protocols are employed by database servers to deci dynamically, in response to client mobility and demand patterns. In this pape propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy con

24 Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rol

October 2003

Proceedings of the nineteenth ACM symposium on Operating sys

Full text available:  pdf(168.76 KB)

Additional Information: full citation, abstract, refere

Numerous systems have been designed which use virtualization to subdivide Some require specialized hardware, or cannot support commodity operating s compatibility at the expense of performance. Others sacrifice security or functi isolation or performance guarantees; most provide only best-effort provisionin presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

25 Tools and approaches for developing data-intensive Web applications: a si

Piero Fraternali

September 1999

ACM Computing Surveys (CSUR), Volume 31 Issue 3

Full text available:  pdf(524.80 KB)

Additional Information: full citation, abstract, reference

The exponential growth and capillar diffusion of the Web are nurturing a nove by a direct business-to-customer relationship. The development of such applic development and Hypermedia authoring, and challenges the existing tools an paper investigates the current situation of Web development tools, both in th identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

- 26 The duality of memory and communication in the implementation of a multi**
M. Young, A. Tevanian, R. Rashid, D. Golub, J. Eppinger
November 1987 ACM SIGOPS Operating Systems Review , Proceedings of the eleve
systems principles, Volume 21 Issue 5

Full text available:  pdf(1.26 MB)

Additional Information: full citation, abstract, references,

Mach is a multiprocessor operating system being implemented at Carnegie-Me
of the Mach design is the use of memory objects which can be managed eithe
through a message interface. This feature allows applications such as transac
decisions regarding secondary storage management and page replacement.Th
implementation of Mach and it ...

- 27 An analytic model of hierarchical mass storage systems with network-attac**
Daniel A. Menascé, Odysseas I. Pentakalos, Yelena Yesha
May 1996 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the
conference on Measurement and modeling of computer systems, Volum

Full text available:  pdf(974.81 KB)

Additional Information: full citation, abstract, reference

Network attached storage devices improve I/O performance by separating con
intervention during data transfer. Devices are attached to a high speed netwo
network for control messages. Hierarchical mass storage systems use disks to
tapes (robotic and manually mounted) to store the bulk of the files in the file
network models can be used to assess t ...

- 28 Annotea: an open RDF infrastructure for shared Web annotations**
José Kahan, Marja-Ritta Koivunen
April 2001 Proceedings of the tenth international conference on World Wide Web

Full text available:  pdf(271.46 KB)

Additional Information: full citation, references, citings, index term

Keywords: RDF, World-Wide Web, XML, XPointer, annotations, metadata, sem

- 29 The open archives initiative: building a low-barrier interoperability framewoi**
Carl Lagoze, Herbert Van de Sompel
January 2001 Proceedings of the first ACM/IEEE-CS joint conference on Digit

Full text available:  pdf(356.96 KB)

Additional Information: full citation, abstract, reference

The Open Archives Initiative (OAI) develops and promotes interoperabil ity so
dissemination of content. The roots of the OAI lie in the E-Print community. O
extended to include all content providers. This paper describes the recent hist
E-Prints, the broadening of its focus, the details of its technical standard for m
standard, ...

Keywords: digital libraries, interoperability, metadata, protocols

30 Network security: Efficient packet marking for large-scale IP traceback

Michael T. Goodrich

November 2002

Proceedings of the 9th ACM conference on Computer and comm

Full text available:  pdf(239.98 KB)

Additional Information: full citation, abstract, refer

We present a new approach to IP traceback based on the probabilistic packet call randomize-and-link, uses large checksum cords to "link" message frame checksums serve both as associative addresses and data integrity verifiers. Th cords is that they spread the addresses of possible router messages across a to easily create messages th ...

Keywords: denial-of-service, packet marking, traceback

31 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Wes

December 2002 The VLDB Journal — The International Journal on Very Lar

Full text available:  pdf(300.97 KB)

Additional Information: full citation, abstrac

Several alternatives to manage large XML document collections exist, ranging database systems to specifically tailored XML base management systems. In t database management system designed from scratch for storing and processi belief that management of XML data is just another application for traditional illustrate how almost every component in a ...

Keywords: Database, XML

32 Session 4: Web service applications: Towards securing XML Web services

Ernesto Damiani, Sabrina De Capitani di Vimercati, Pierangela Samarati

November 2002

Proceedings of the 2002 ACM workshop on XML security

Full text available:  pdf(198.65 KB)

Additional Information: full citation, abstract, refere

Security is currently one of the main concerns about XML Web services. Sever at achieving a standardized way for supporting integrity, confidentiality, and a paper looks into these approaches and gives some hints for future research.

Keywords: SOAP, Web services, access control

33 Token coherence: decoupling performance and correctness

Milo M. K. Martin, Mark D. Hill, David A. Wood

May 2003 ACM SIGARCH Computer Architecture News , Proceedings of the 30th a
Computer architecture, Volume 31 Issue 2

Full text available:  pdf(269.08 KB)


Additional Information: full citation, abstra

Many future shared-memory multiprocessor servers will both target commerc
"glueless" designs. Implementing low-latency cache coherence in these syste
approaches either add indirection for common cache-to-cache misses (directo
interconnect (traditional snooping protocols). Unfortunately, totally-ordered in
glueless designs. An ideal coherenc ...

34 UIO: a uniform I/O system interface for distributed systems

David R. Cheriton

January 1987 ACM Transactions on Computer Systems (TOCS), Volume 5 Is

Full text available:  pdf(3.20 MB)


Additional Information: full citation, abstract, references, citin

A uniform I/O interface allows programs to be written relatively independentl
a wide variety of the I/O services available in a distributed environment. Idea
access without excessive complexity in the interface or loss of performance. H
from careful design of individual system interfaces alone; it requires explicit d

35 Application performance and flexibility on exokernel systems

M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Héctor M. Briceño, Ru
Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie

October 1997 ACM SIGOPS Operating Systems Review , Proceedings of the sixteen
principles, Volume 31 Issue 5

Full text available:  pdf(2.39 MB)

Additional Information: full citation, references, citin

36 Hardware-In-the-Loop (HIL) simulation: an application of Colbert's object-o

Mohamed E. Fayad, Louis J. Hawn, Mark A. Roberts, Jay W. Schooley, Wei-Tek T

December 1992 Proceedings of the conference on TRI-Ada '92


Full text available:  pdf(1.44 MB)

Additional Information: full citation, references, i

37 The logical disk: a new approach to improving file systems

Wiebren de Jonge, M. Frans Kaashoek, Wilson C. Hsieh

December 1993 ACM SIGOPS Operating Systems Review , Proceedings of the fourth systems principles, Volume 27 Issue 5

Full text available:  pdf(1.55 MB)

Additional Information: full citation, abstract, references,

The Logical Disk (LD) defines a new interface to disk storage that separates file systems using logical block numbers and block lists. The LD interface is designed to support multiple implementations, both of which are important given the increasing number of operating system personalities. A log-structured implementation of LD (LLD) does so efficiently. LLD adds about 5% to 10% ...

Keywords: MINIX, UNIX, disk storage management, file system organization, performance, log-structured file system, logical disk

38 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 2

Full text available:  pdf(483.54 KB)

Additional Information: full citation, abstract, reference

After more than 20 years of research and practice in software configuration management, configurations of versioned software products still remains a challenge. This is underlying both commercial systems and research prototypes. It provides an overview of versioning paradigms and defines and relates fundamental concepts such as requirements changes. In particular, we focus on ...

Keywords: changes, configuration rules, configurations, revisions, variants, versioning

39 Telecommunications: Fluid simulation: discrete event fluid modeling of TCP

David M. Nicol

December 2001 Proceedings of the 33rd conference on Winter simulation

Full text available:  pdf(151.17 KB)


Additional Information: full citation, abstract

The bulk of Internet traffic is carried using variants of the TCP protocol. A real-time model of any distributed application run over the Internet (e.g. reliable multicast) must take into account TCP background traffic and its impact on application behavior. Because TCP flows are modeled as fluid flows, we model TCP and its impact on other traffic other than by explicitly simulating individual packets. This model is a burden to the ...

40 Job and jobstream modeling in the TRW timeshare system simulation

Hans Kaspar, Donald S. Miller

June 1974 Proceedings of the 1974 symposium on Simulation of computer sy

Full text available:  pdf(1.43 MB)

Additional Information: full citation, abstract, references,

The method of modeling user jobs and jobstream utilized in the simulation of presented. The paper begins with a brief description of the TRW/TSS. Simulat the simulator is presented. The actual TRW/TSS user jobstream is given in de modeling this user profile; namely, a statistical and a job-trace modeling app this paper. Sections on ...

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41 Technical papers: software presentation: Towards large-scale information i

Kenneth M. Anderson, Susanne A. Sherba, William V. Lepthien

May 2002

Proceedings of the 24th international conference on Software engin

Full text available:  pdf(1.46 MB)


Additional Information: full citation, abstract, references,

Software engineers confront many challenges during software development. O that exist between software artifacts. We refer to this task as information inte between documents typically implies that an engineer must integrate informa perform a development task. In the past, we have applied open hypermedia t challenge. We now extend this work ...

42 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann

May 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 3

Full text available:  pdf(1.92 MB)


Additional Information: full citation

43 Adaptive block rearrangement

Sedat Akyürek, Kenneth Salem

May 1995

ACM Transactions on Computer Systems (TOCS), Volume 13 Issue 1

Full text available:  pdf(2.27 MB)

Additional Information: full citation, abstract, references, citations

An adaptive technique for reducing disk seek times is described. The technique moves their original locations to reserved space near the middle of the disk. References advance. Instead, they are estimated by monitoring the stream of arriving requests. Seek times can be cut substantially by copying only a small number of blocks. The technique has been implemented by modifying the disk scheduling algorithm.

Keywords: data clustering, data replication, seek optimization

44 PLEXUS—an on-line system for modeling neural networks

J. C. Dill, D. L. Randall, I. Richer

September 1968

Communications of the ACM, Volume 11 Issue 9

Full text available:  pdf(926.62 KB)

Additional Information: full citation, abstract, references

A description is presented of PLEXUS, a system which enables a user to construct and analyze the output data produced by the network, and to store and retrieve the data. The system, operated entirely from a digital display unit, interacts directly with the user. Transitions between the various phases of the modeling process. PLEXUS is designed for research so that the systematic development of the model is facilitated.

Keywords: biological modeling, data analysis, discrete system simulation, library simulation, neural networks, neurophysiological models, on-line simulation, simulation

45 Safely executing untrusted code: Upgrading transport protocols using untrusted code

Parveen Patel, Andrew Whitaker, David Wetherall, Jay Lepreau, Tim Stack

October 2003

Proceedings of the nineteenth ACM symposium on Operating systems and distributed computing

Full text available:  pdf(248.86 KB)

Additional Information: full citation, abstract, references

In this paper, we present STP, a system in which communicating end hosts can safely upgrade each other with the transport protocols that they use to communicate. STP is a type-safe version of C, distributed out-of-band, and run in-kernel. Communication is used as part of a TCP-like connection setup handshake that is backwards-compatible with existing connection setup latency. New transports are supported.

Keywords: TCP-friendliness, deployment, implementation, transport protocols

- 46 Automatic metadata creation: Automatic document metadata extraction using machine learning methods**
Hui Han, C. Lee Giles, Eren Manavoglu, Hongyuan Zha, Zhenyue Zhang, Edward May
May 2003 Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries

Full text available:  pdf(200.52 KB)

Additional Information: full citation, abstract, references

Automatic metadata generation provides scalability and usability for digital libraries. Machine learning methods offer robust and adaptable automatic metadata extraction. We propose a classification-based method for metadata extraction from header part of research papers. We compare our method with other machine learning methods on the same task. The method first classifies the header into 15 classes. An iterative convergence algorithm is used to refine the classification results.

- 47 ARIMA time series modeling and forecasting for adaptive I/O prefetching**
Nancy Tran, Daniel A. Reed
June 2001 Proceedings of the 15th international conference on Supercomputing

Full text available:  pdf(485.27 KB)

Additional Information: full citation, abstract, reference

Bursty application I/O patterns, together with transfer limited disks, constitute a major I/O bottleneck on parallel systems. This paper explores a prefetching algorithm that forecasts application I/O request times, then prefetches I/O requests to hide I/O latency. Experimental results with I/O intensive scientific applications show significant improvements compared to standard UNIX prefetching strategies.

Keywords: I/O, access pattern, modeling, prefetching, times series

- 48 Experiences with the Amoeba distributed operating system**
Andrew S. Tanenbaum, Robbert van Renesse, Hans van Staveren, Gregory J. Shuster
December 1990 Communications of the ACM, Volume 33 Issue 12


Full text available:  pdf(2.71 MB)

Additional Information: full citation, abstract, references, citation

The Amoeba project is a research effort aimed at understanding how to connect multiple machines into a single system [16, 17, 26, 27, 31]. The basic idea is to provide the users with the illusion of a single machine when, in fact, the system is implemented on a collection of machines, potentially on different hardware architectures. This research has led to the design and implementation of the Amoeba distributed operating system as a prototype and vehicle for further research.

49 BIIF, VRML and CGM

Bernadette Kuzma, George S. Carson, Richard F. Puk, John Gebhardt
May 1999 ACM SIGGRAPH Computer Graphics, Volume 33 Issue 2

Full text available:  pdf(1.58 MB)

Additional Information: full citation, abstract,

This edition of the Standards Pipeline consists of three articles that provide an important international standards. In the first article, Bernadette Kuzma of SE Interchange Format (BIIF) formally known as ISO/IEC 12087-5:1998. While B is beginning to find wider applications in areas ranging from electronic librarie article, Richard F. Puk of In ...

50 Metamodeling in EIA/CDIF---meta-metamodel and metamodels

Rony G. Flatscher
October 2002 ACM Transactions on Modeling and Computer Simulation (TOMAC

Full text available:  pdf(434.96 KB)

Additional Information: full citation, abstract, refere

This article introduces the EIA/CDIF set of standards for the modeling of infor computer-aided software tools of different vendors. It lays out the meta-meta which are fully depicted in a hierarchical layout and annotated with the uniqu modeling concepts. The article also stresses the fact that EIA/CDIF has been international standard, the ISO/ ...

Keywords: CASE Data Interchange Format, CDIF, EIA, clear text encoding, lan system design

51 A system for automatic personalized tracking of scientific literature on the \

Kurt D. Bollacker, Steve Lawrence, C. Lee Giles
August 1999 Proceedings of the fourth ACM conference on Digital libraries


Full text available:  pdf(123.52 KB)

Additional Information: full citation, references, citings, index terms

Keywords: citation index, information filtering, knowledge representation, use

52 Acknowledgment procedures at radio link control level in GPRS

Wessam Ajib, Philippe Godlewski
August 1999 Proceedings of the 2nd ACM international workshop on Modeling, ana systems

Full text available:  pdf(1.02 MB)

Additional Information: full citation, references, citin

53 Distributed stream control for self-managing media processing graphs

Lisa Amini, Jorge Lepre, Martin Kienzle

October 1999 Proceedings of the seventh ACM international conference on Multime

Full text available:  pdf(511.49 KB)

Additional Information: full citation, references, index terms

54 Extraction and Visualization: Webformulate: a web-based visual continual (

Jennifer Leopold, Meg Heimovics, Tyler Palmer

May 2002 Proceedings of the eleventh international conference on World Wid

Full text available:  pdf(423.60 KB)

Additional Information: full citation, abstract, refer


Today there is a plethora of data accessible via the Internet. The Web has gre accessing, and sharing information. However, a considerable amount of Intern unutilized, particularly in the case of frequently-updated, Internet-distributed overview of *WebFormulate*, a Web-based visual continual query system that a formulating tempora ...

Keywords: continual query, visual programming language, visual query system

55 Designing database interfaces with DBface

Roger King, Michael Novak

April 1993 ACM Transactions on Information Systems (TOIS), Volume 11 Iss

Full text available:  pdf(1.86 MB)

Additional Information: full citation, abstract, references, citin

DBface is a toolkit for designing interfaces to object-oriented databases. It pr custom interfaces with minimal programming. This is accomplished by combin Management Systems (UIMS) with a built-in knowledge about the specific kin databases. DBface allows users to create graphical constructs and interactive object-oriented database envir ...

Keywords: graphical interfaces, object-oriented databases, user interface man

56 Special section on advanced XML data processing: Preservation of digital (knowledge-based archives

Bertram Ludäscher, Richard Marciano, Reagan Moore

September 2001 ACM SIGMOD Record, Volume 30 Issue 3


Full text available:  pdf(881.20 KB)

Additional Information: full citation, abstract, refere

Digital archives are dedicated to the long-term preservation of electronic info sustained access despite rapid technology changes. Persistent archives are co helper applications, and platforms being used over the lifetime of the archive. challenges, for which mediators are devised. To prevent technological obsoles migration approach for per ...

57 Application systems: Remotely-sensed geophysical databases: experience

Guy M. Lohman, Joseph C. Stoltzfus, Anita N. Benson, Michael D. Martin, Alfonso May 1983 Proceedings of the 1983 ACM SIGMOD international conference on M

Full text available:  pdf(1.85 MB)

Additional Information: full citation, abstract,

This paper presents the characteristics of scientific remotely-sensed database challenges for --- general-purpose database management systems (DBMSs). integrates geophysical data and its metadata from both satellite and *in situ* so DBMS to manage the catalog and observational data, and a video optical disk experience with this application, ...

58 Visualization: Query, analysis, and visualization of hierarchically structured

Chris Stolte, Diane Tang, Pat Hanrahan

July 2002 Proceedings of the eighth ACM SIGKDD international conference on Kn

Full text available:  pdf(10.02 MB)


Additional Information: full citation, abstract, refere

In the last several years, large OLAP databases have become common in a va warehouses and scientific computing. To support interactive analysis, many o hierarchical structures that provide meaningful levels of abstraction that can b analyst. This hierarchical structure generates many challenges and opportunit analysis, and visualization of ...

59 Technical papers: software architecture: An infrastructure for the rapid dev description languages

Eric M. Dashofy, André van der Hoek, Richard N. Taylor

May 2002 Proceedings of the 24th international conference on Software engin

Full text available:  pdf(1.40 MB)

Additional Information: full citation, abstract, references, c

Research and experimentation in software architectures over the past decade architecture description languages (ADLs). Continuing innovation indicates th ADLs, or at least ADL features. This research process is impeded by the difficu new notations. An architect in need of a unique set of modeling features mus description language from scratch or unde ...

60 Applicability of Software Validation Techniques to Scientific Programs

W. E. Howden

July 1980 ACM Transactions on Programming Languages and Systems (TOPLAS

Full text available:  pdf(914.46 KB)

Additional Information: full citation, abstract, reference

Error analysis involves the examination of a collection of programs whose erro validation techniques which would discover the error are identified. The errors package of Fortran scientific subroutines and then later corrected in version s of static and dynamic analysis methods would have discovered the errors in v approach to v ...

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61 Validation of Scientific Programs

William E. Howden

June 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 2

Full text available: pdf(2.92 MB) Additional Information: full citation, references, citings, index terms

62 Archiving, digital collections, and analysis: An evolutionary approach to digital heritage sites

John Counsell

November 2001 Proceedings of the 2001 conference on Virtual reality, archeology

Full text available: pdf(3.32 MB) Additional Information: full citation, abstract, references

This paper considers 3 cases undertaken by a team at the University of the West of London Computer Models and more recent linked European Historic Gardens to investigate uses of spatial information systems to store, manage and visualise interactive off-site access to interpretative information. Existing records, often inadequate for such use and incomplete ...


Keywords: GIS, VRML, augmented reality, real-time video, spatial information

63 Enhancing program readability and comprehensibility with tools for program

R. Baecker

April 1988

Proceedings of the 10th international conference on Software engineering

Full text available:  pdf(1.12 MB)

Additional Information: full citation, abstract, references,

In order to make computer programs more comprehensible, the presentation documentation, and program execution needs to be enhanced over its conventional number of new techniques and tools developed to achieve these ends. One of the presentation of source text in the C programming language using high quality implements the design. Some experimental ...

64 Evaluating the performance of a unified switching node using a simulated

Kenneth J. Bodzioch, Bernard E. Patrusky

December 1976

Proceedings of the 76 Bicentennial conference on Winter simulation

Full text available:  pdf(750.45 KB)

Additional Information: full citation, abstract, references

This paper describes a program which utilizes a discrete event simulation to do measurements of various nodal performance characteristics are gathered and program to aid in the evaluation and design of candidate future nodal architectures specialized hardware for a unified node which switches both digitized voice and tested in a flexible test ...

65 Specification, validation, and synthesis of email agent controllers: A case study design

Robert J. Hall

August 2000

Proceedings of the third workshop on Formal methods in software

Full text available:  pdf(527.90 KB)

Additional Information: full citation, abstract, references

With a few exceptions, previous formal methods for reactive system design have represented in terms of boolean states and boolean next-state functions. By contrast requirements engineers and developers think in terms of complex data types. Formal methods for reactive system design must be extended to meet their needs. function rich if expressions ...

Keywords: Electronic Mail, Formal Methods, Reactive Systems

- 66 DDD papers: Software factories: assembling applications with patterns, mc**
Jack Greenfield, Keith Short
October 2003 Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming and applications


Full text available:  pdf(707.51 KB)

Additional Information: full citation, abstract, references, citations

The confluence of component based development, model driven development approach to application development based on the concept of software factories productivity and predictability than those produced by incremental improvement orientation, which have not kept pace with innovation in platform technology. application assembly more cost effective through ...

Keywords: design patterns, domain-specific languages, model-driven development lines

- 67 Disconnected operation in the Coda file system**
James J. Kistler, M. Satyanarayanan
September 1991 ACM SIGOPS Operating Systems Review , Proceedings of the third systems principles, Volume 25 Issue 5

Full text available:  pdf(1.39 MB)


Additional Information: full citation, references, citations

- 68 Structure of mathematical programming systems**

WM. Orchard Hays

January 1968

Proceedings of the 1968 23rd ACM national conference

Full text available:  pdf(1.47 MB)

Additional Information: full citation, abstract, references, citations

A mathematical programming system (MPS), as now implemented on third generation separate subject areas: 1. Algorithmic and procedural capabilities 2. Problem Programming languages 4. System structure and use Each of these areas involve not do justice to any of them in the time available. Since problem formulation

- 69 Query processing in a multimedia document system**

Elisa Bertino, Fausto Rabbiti, Simon Gibbs

January 1988

ACM Transactions on Information Systems (TOIS), Volume 6

Full text available:  pdf(2.94 MB)

Additional Information: full citation, abstract, references, citations

Query processing in a multimedia document system is described. Multimedia containing formatted data, text, image, graphics, and voice. The query language model that allows the users to formulate queries on both document content a system is outlined, with focus on the storage organization in which both optical processing and the different strategies ...

70 Piranha: a scalable architecture based on single-chip multiprocessing

Luiz André Barroso, Kourosh Gharachorloo, Robert McNamara, Andreas Nowatzky Robert Stets, Ben Verghese

May 2000 ACM SIGARCH Computer Architecture News , Proceedings of the 27th a Computer architecture, Volume 28 Issue 2

Full text available:  pdf(191.10 KB)

Additional Information: full citation, abstract, reference

The microprocessor industry is currently struggling with higher development c from exceedingly complex processors that are pushing the limits of instruction designs are especially ill suited for important commercial applications, such a which suffer from large memory stall times and exhibit little instruction-level applications constitute by fa ...

71 TIMBER: A native XML database

H. V. Jagadish, S. Al-Khalifa, A. Chapman, L. V. S. Lakshmanan, A. Nierman, S. Wiwatwattana, Y. Wu, C. Yu

December 2002 The VLDB Journal — The International Journal on Very Lar

Full text available:  pdf(268.39 KB)

Additional Information: full citation, abstra



This paper describes the overall design and architecture of the Timber XML da implemented at the University of Michigan. The system is based upon a bulk stores XML. New access methods have been developed to evaluate queries in and query optimization techniques have also been developed. We present per design decisions. We believe that the key in ...

Keywords: Algebra, Document management, Hierarchical, Query processing,

72 Technical papers: software understanding: Hipikat: recommending pertin

Davor ?ubrani?, Gail C. Murphy

May 2003 Proceedings of the 25th international conference on Software engin

Full text available:  pdf(1.19 MB)  Publisher Site

Additional Information: full

A newcomer to a software project must typically come up-to-speed on a large project before becoming productive. Assimilating this information in the open newcomer cannot rely on the mentoring approach that is commonly used in tr newcomer to an open-source project become productive faster, we propose H memory from the information stored ...

73 Deciding when to forget in the Elephant file system

Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, R
December 1999 ACM SIGOPS Operating Systems Review , Proceedings of the seven
systems principles, Volume 33 Issue 5

Full text available:  pdf(1.61 MB)


Additional Information: full citation, abstract, references,

Modern file systems associate the deletion of a file with the immediate release of an
irrevocable change of file contents. We argue that this behavior is a relic of the
resource. Today, large cheap disks make it possible for the file system to protect
overwrite. This paper describes the design, implementation, and performance
automatically retains all information ...

74 Solutions to hidden terminal problems in wireless networks

Chan L. Fullmer, J. J. Garcia-Luna-Aceves

October 1997 ACM SIGCOMM Computer Communication Review , Proceedings of the
Applications, technologies, architectures, and protocols for computer

Full text available:  pdf(1.72 MB)



Additional Information: full citation, abstract, references,

The floor acquisition multiple access (FAMA) discipline is analyzed in network
control of the channel (the floor) is assigned to at most one station in the network
guaranteed to be able to transmit one or more data packets to different destinations
protocols described consist of non-persistent carrier or packet sensing, plus a
source and the intended ...

75 The decay and failures of web references

Diomidis Spinellis

January 2003 Communications of the ACM, Volume 46 Issue 1

Full text available:  pdf(137.19 KB)  html(36.74 KB) Additional Information: full citation, abstract, reference

Attempting to determine how quickly archival information becomes outdated.

76 Component framework infrastructure for virtual environments

Manuel Oliveira, Jon Crowcroft, Mel Slater

September 2000 Proceedings of the third international conference on Collaborative

Full text available:  pdf(1.14 MB)

Additional Information: full citation, abstract, references,

Virtual Environments (VE) present a complex problem with interesting non-trivial
particular when the VE is distributed and shared amongst multiple participant
system, however the development effort is replicated because current system
integration of code across different systems. This paper presents the Java Ada
consists of a lightweight ...

Keywords: components, framework, java, virtual environments, virtual reality

77 Web crawling and measurement: Efficient URL caching for world wide web

Andrei Z. Broder, Marc Najork, Janet L. Wiener

May 2003

Proceedings of the twelfth international conference on World Wide

Full text available:  pdf(174.37 KB)

Additional Information: full citation, abstract, refere

Crawling the web is deceptively simple: the basic algorithm is (a) Fetch a pag
For all the URLs not seen before, repeat (a)-(c). However, the size of the web
rate of change (estimated at 7% per week) move this plan from a trivial prog
and system design challenge. Indeed, these two factors alone imply that for a
the web, step (a) ...

Keywords: URL caching, caching, crawling, distributed crawlers, web crawlers

78 aTool: creating validated XML documents on the fly using MS word

Oliver Meyer

October 2002

Proceedings of the 20th annual international conference on Comp

Full text available:  pdf(239.02 KB)

Additional Information: full citation, abstract, refere

This paper describes aTool, an extension to Microsoft's Word to create XML do
joint project of the publisher Springer Verlag, Technical University of Munich (
(RWTH). It has been developed to provide Springer Verlag with uniform XML d
become a generic XML creation tool that can be adapted to different documen
XML structures from MS Word editing c ...


Keywords: A-Posteriori Integration, DOM, Microsoft Office, Microsoft Word, Mi
formatting

79 Software evolution through iterative prototyping

Neil Goldman, K. Narayanaswamy

June 1992

Proceedings of the 14th international conference on Software engineer

Full text available:  pdf(1.55 MB)

Additional Information: full citation, references, citings, index terms

80 Reviewed papers: Operating systems projects: Minix revisited

James Howatt

December 2002

ACM SIGCSE Bulletin, Volume 34 Issue 4

Full text available:  pdf(34.45 KB)

Additional Information: full citation, abstrac

The author argues for the use of a real, albeit educational-strength, operating
base operating systems projects. Minix developers have created a version tha
platforms, without the need for hard-drive partitioning. Sample projects demo
operating systems concepts.

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